

Taking Charge of Your Bone Health, April 2, 2016

REFERENCES

- Booth, S. L., K. L. Tucker, H. Chen, M. T. Hannan, D. R. Gagnon, L. A. Cupples, P. W. F. Wilson, J. Ordovas, E. J. Schaefer, B. Dawson-Hughes, and D. P. Kiel. 2000. Dietary vitamin K intakes are associated with hip fracture but not with bone mineral density in elderly men and women. *American Journal of Clinical Nutrition* 71(5):1201–1208.
- Brown, S. E. 2008. Vitamin D and fracture reduction: An evaluation of the existing research. *Alternative Medicine Review* 13(1): 21–33.
- Brown, S. E., and R. Jaffe. 2000. Acid-alkaline balance and its effect on bone health. *International Journal of Integrative Medicine* 2(6).
- Carpenter, T.O., M. C. DeLucia, J. H. Zhang, G. Bejnerowicz, L. Tartamella, J. Dziura, K. F. Petersen, D. Befroy, and D. Cohen. 2006. A randomized controlled study of effects of dietary magnesium oxide supplementation on bone mineral content in healthy girls. *Journal of Clinical Endocrinology and Metabolism* 91(12):4866–4872.
- Chapuy, M. C., M. E. Arlot, F. Duboeuf, J. Brun, B. Crouzet, S. Arnoud, P. D. Delmas, and P. J. Meunier. 1992. Vitamin D₃ and calcium to prevent hip fractures in elderly women. *New England Journal of Medicine* 327(23):1637–1642.
- Cockayne, S., J. Adamson, S. Lanham-New, M. J. Shearer, S. Gilbody, and D. J. Torgerson. 2006. Vitamin K and the prevention of fractures: Systematic review and meta-analysis of randomized controlled trials. *Archives of Internal Medicine* 166(12):1256–1261.
- Consensus Development Conference. 1993. Diagnosis, prophylaxis, and treatment of osteoporosis. *American Journal of Medicine* 94(6):646–650.
- Cummings, S. R., M. C. Nevitt, W. S. Browner, K. Stone, K. M. Fox, K. E. Ensrud, J. Cauley, D. Black, and T. M. Vogt. 1995. Risk factors for hip fracture in white women. *New England Journal of Medicine* 332(12):767–774.
- Davis, D. R., M. D. Epp, and H. D. Riordan. 2004. Changes in USDA food composition data for 43 garden crops, 1950 to 1999. *Journal of the American College of Nutrition* 23(6):669–682.
- Feskanich, D., P. Weber, W. C. Willett, H. Rockett, S. L. Booth, and G. A. Colditz. 1999. Vitamin K intake and hip fractures in women: A prospective study. *American Journal of Clinical Nutrition* 69(1):74–79.
- Frassetto, L., and A. Sebastian. 1996. Age and systemic acid-base equilibrium: Analysis of published data. *Journal of Gerontology* 51A(1):B91–B99.

- Frassetto, L., R. C. Morris Jr., and A. Sebastian. 2005. Long-term persistence of the urine calcium-lowering effect of potassium bicarbonate in postmenopausal women. *Journal of Clinical Endocrinology and Metabolism* 90(2):831–834.
- Frassetto, L., R. C. Morris Jr., D. E. Sellmeyer, K. Todd, and A. Sebastian. 2001. Diet, evolution and aging: The pathophysiologic effects of the post-agricultural inversion of the potassium-to-sodium and base-to-chloride ratios in the human diet. *European Journal of Nutrition* 40(5):200–213.
- Green, J., and C. R. Kleeman. 1991a. Role of bone in regulation of systemic acid-base balance. *Kidney International* 39(1):9–26.
- Green, J., and C. R. Kleeman. 1991b. Role of bone in regulation of systemic acid-base balance. *Contributions to Nephrology* 91:61–76.
- Hart, J. P., M. J. Shearer, L. Klenerman, A. Catterall, J. Reeve, P. N. Sambrook, R. A. Dodos, L. Bitensky, and J. Chayen. 1985. Electrochemical detection of depressed circulating levels of vitamin K₁ in osteoporosis. *Journal of Clinical Endocrinology and Metabolism* 60(6): 1268–1269.
- Irving, L., and A. L. Chute. 1932. The participation of the carbonates of bone in the neutralization of ingested acid. *Journal of Cellular Physiology* 2(2):157–176.
- Jajoo, R., L. Song, H. Rasmussen, S. S. Harris, and B. Dawson-Hughes. 2006. Dietary acid-base balance, bone resorption, and calcium excretion. *Journal of the American College of Nutrition* 25(3):224–230.
- Jehle, S., H. N. Hulter, and R. Krapf. 2013. Effect of potassium citrate on bone density, microarchitecture, and fracture risk in healthy older adults without osteoporosis: A randomized controlled trial. *The Journal of Clinical Endocrinology and Metabolism* 98(1):207–217.
- Jehle, S., A. Zanetti, J. Muser, H. N. Hulter, and R. Krapf. 2006. Partial neutralization of the acidogenic Western diet with potassium citrate increases bone mass in postmenopausal women with osteopenia. *Journal of the American Society of Nephrology* 17(11):3213–3222.
- Michaëlsson, K., L. Holmberg, H. Mallmin, S. Sörensen, A. Wolk, R. Bergström, S. Ljunghall, and the Study Group of the Multiple Risk Survey on Swedish Women for Eating Assessment. 1995. Diet and hip fracture risk: A case-control study. *International Journal of Epidemiology* 24(4):771–782.
- n.a. 2015. Keeping in good spirits reduces risk of age-induced osteoporosis in women. *Nursing Standard* 29(22):16.

- New, S. A. 2002. Nutrition Society medal lecture: The role of the skeleton in acid-base homeostasis. *Proceedings of the Nutrition Society* 61(2):151–164.
- Riggs, B. L., H. W. Wahner, L. J. Melton III, L. S. Richelson, H. L. Judd, and K. P. Offord. 1986. Rates of bone loss in the appendicular and axial skeletons of women: Evidence of substantial vertebral bone loss before menopause. *Journal of Clinical Investigation* 77(5):1487–1491.
- Rude, R. K. 2001. Magnesium deficiency: A possible risk factor for osteoporosis. Pages 263–271 in *Nutritional Aspects of Osteoporosis*, ed. P. Buckhardt and B. Dawson-Hughes. Academic Press, San Diego, CA.
- Sahni, S. 2015. Vitamin C and bone health. Presentation at 9th International Symposium on Nutritional Aspects of Osteoporosis, Montreal Canada, June 17–20, 2015.
- Sebastian, A., S. T. Harris, J. H. Ottaway, K. M. Todd, and R. C. Morris Jr. 1994. Improved mineral balance and skeletal metabolism in postmenopausal women treated with potassium bicarbonate. *New England Journal of Medicine* 330(25):1776–1781.
- Seeman, E., J. P. Devogelaer, R. Lorenc, T. Spector, K. Brixen, A. Balogh, G. Stucki, and J. Y. Reginster. 2008. Strontium ranelate reduces the risk of vertebral fractures in patients with osteopenia. *Journal of Bone and Mineral Research* 23(3):433–438.
- Sinaki, M. 2003. Critical appraisal of physical rehabilitation measures after osteoporotic vertebral fracture. *Osteoporosis International* 14(9):773–779.
- Sinaki, M., E. Itoi, H. W. Wahner, P. Wollan, R. Gelzcer, B. P. Mullan, D. A. Collins, and S. F. Hodgson. 2002. Stronger back muscles reduce the incidence of vertebral fractures: A prospective 10 year follow-up of postmenopausal women. *Bone* 30(6):836–841.
- Stone, K. L., D. G. Seeley, L. Y. Lui, J. A. Cauley, K. Ensrud, W. S. Browner, M. C. Nevitt, S. R. Cummings, and the Osteoporotic Fractures Research Group. 2003. BMD at multiple sites and risk of fracture of multiple types: Long-term results from the study of osteoporotic fractures. *Journal of Bone and Mineral Research* 18(11):1947–1954.
- Strause, L., P. Saltman, K. T. Smith, M. Bracker, and M. B. Andon. 1994. Spinal bone loss in postmenopausal women supplemented with calcium and trace minerals. *Journal of Nutrition* 124(7):1060–1064.
- Szulc, P., M. C. Chapuy, P. J. Meunier, and P. D. Delmas. 1993. Serum undercarboxylated osteocalcin is a marker of the risk of hip fracture in elderly women. *Journal of Clinical Investigation* 91(4):1769–1774.
- Vergnaud, P., P. Garnero, P. J. Meunier, G. Bréart, K. Kamihagi, and P. D. Delmas. 1997. *Journal of Clinical Endocrinology and Metabolism* 82(3):719–724.